JUL 2 4 2006

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450

Alexandria, VA 22313 on July 19, 2056

Doran R. Pace, Patent Attorney

INFORMATION DISCLOSURE STATEMENT

Patent Application Docket No. UF-382XC1 Serial No. 10/577,611

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : L. Curtis Hannah, Maureen Anne Clancy

Serial No. :

10/577,611

Filed For April 28, 2006

Materials and Methods for Improved Sweet Corn

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 881.97 AND 1.98

Sir:

In accordance with 37 CFR §1.56, the references listed on the attached form PTO/SB/08 are being brought to the attention of the Examiner for consideration in connection with the examination of the above-identified patent application. A copy of each cited reference is enclosed. However, Applicants have not submitted copies of the U.S. patents or published U.S. Patent Applications cited on attached Form PTO/SB/08 pursuant to 37 CFR 1.98(a)(2)(ii).

It is respectfully requested that the references cited on the attached form PTO/SB/08 be considered in the examination of the subject application and that their consideration be made of record.

J:\UF\382XC1\PTO-Misc\IDS.doc/DNB/kmm

Applicants respectfully assert that the substantive provisions of 37 CFR $\S1.97$ and 1.98 are met by the foregoing statement.

Respectfully submitted,

Doran R. Pace Patent Attorney

Registration No. 38,261

Phone No.: 352-375-8100

Fax No.: 352-372-5800 Address: P.O. Box 142950

Gainesville, FL 32614-2950

DRP/kmm

Attachments: Form PTO/SB/08; copies of cited references.

JUL 2 4 2006

PTO/SE/08A (98-3)
Approved for use through 07/31/2006. OMB 0951-0901
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
of Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB

Substitute for form 1449A/PTO				Complete if Known		
				Application Number	10/577,611	
	ATION DISCL			Filing Date	April 28, 2006	
STATEMENT BY APPLICANT			ANI	First Named Inventor	L. Curtis Hannah	
(u	se as many sheets a	es nec	essary)	Art Unit	Not yet assigned	
				Examiner Name	Not yet assigned	
Sheet	1	of	4	Attorney Docket Number	UF-382XC1	

	U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. 1	Document Number Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
	U1	US-6,410,716	06-25-2002	MYERS et al.	All	
	U2	US-6,184,438	02-06-2001	HANNAH	All	
	U3	US-6,573,009	06-03-2003	GRAHAM	All	
	U4	US-6,506,559	01-14-2003	FIRE et al.	All	
	U5	US-5,589,618	12-31-1996	HANNAH et al.	All	
	U6	US-5,650,557	07-22-1997	HANNAH et al.	All	
	U7	US-5,872,216	02-16-1999	HANNAH et al.	All	
	U8	US-6,403,863	06-11-2002	HANNAH et al.	All	
	U 9	US-6,069,300	05-30-2000	HANNAH et al.	All	
	U10	US-6,274,792	08-14-2001	CHANG et al.	All	
	U11	US-5,955,330	09-21-1999	VASIL et al.	All	
	U12	US-6,288,311	09-11-2001	MARSHALL et al.	All	
	U13	US-5,004,864	04-02-1991	ROBERTSON et al.	All	
	U14	US-2003/0108923	06-12-2003	TUSCHL et al.	All	
	U15	US-2002/0086356	07-04-2002	TUSCHL et al.	All	

FOREIGN PATENT DOCUMENTS								
Cite No. 1	Foreign Patent Document Country Code 3 - Number 4 - Kind Code 5 (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Peges, Columns, Lines, Where Relevent Pessages or Relevant Figures Appear	т*			
F1	WO 02/44321	06-06-2002	MAXPLANCK- GESELLSCHAFT ZUR FÖRDERUNG DER WISSENSCHAFTEN E.V.	All				
	No. 1	Foreign Patent Document Cite No. Country Code 3 - Number 4 - Kind Code (if Isrown) F1 WO 02/44321	Foreign Patent Document	Foreign Patient Document Publication Other No. Country Code 3 - Number 4 - Kind Code (if Ixrown) MADD-YYYY	Foreign Patient Document Patient Document Patient Date Date			

Examiner	Date
Signature	Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered, Include copy of this form with next communication to applicant. "Applicants' unique citation designation number (optional)." See Kind Codes of USPTO Plantin Documents at www.useriago.cog or VMPEPOTO 0.4. "Enter Office that issued the document, by the Wo-letter code (WMPC Standard T.S)." For Japanese patient documents. In the indication of the year of the reign of the Emperor must precede the settle number of the patient document. "Kind of occurrent by the appropriate granted as indicated on the document under WTPO Standard ST. 16 if possible." Applicant is to place a check mark here if English language

This collection of information is required by 3T CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USFTO by process) an application. Confiderability is governed by 35 U.S. C.122 and 3T CFR 1.14. This collection is estimated to 5 Journs to complexe including agithering, preparing, and submitting the completed application form to the USFTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief information Offices, U.S. Peatra and Trademark Office, P.O. Box 1450, Alexandria, VA. 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA. 22313-1450.

PTO/SB/08B (08-03)

Approved for use through 07/31/2006. OMB 0651-0031 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Complete if Known Substitute for form 1449B/PTO **Application Number** INFORMATION DISCLOSURE 10/577,611 Filing Date April 28, 2006 STATEMENT BY APPLICANT First Named Inventor L. Curtis Hannah **Group Art Unit** Not yet assigned (use as many sheets as necessary) **Examiner Name** Not yet assigned Sheet 2 of Attorney Docket Number UF-382XC1

		NON PATENT LITERATURE DOCUMENTS	_
Examiner Initials*	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, only and/or country where published.	T²
	R1	AINSWORTH, C. et al. *Adenosine Diphosphate Glucose Pyrophosphorylase Genes in Wheat: Differential Expression and Gene Mapping*, Planta, 1995, pp. 1-10, Vol. 197.	Τ
	R2	ANDERSON, J. M. et al. "The Encoded Primary Sequence of a Rice Seed ADP-glucose Pyrophosphorylase Subunit and its Homology to the Bacterial Enzyme", J. Biol. Chem., 1989, pp. 12238-12242, Vol. 264, No. 1.	T
	R3	ANDERSON, J. M. et al. "Molecular Characterization of the Gene Encoding a Rice Endosperm- Specific ADPglucose Pyrophosphorylase Subunit and its Developmental Pattern of Transcription", Gene, 1991, pp. 199-205, Vol. 97.	
	R4	ARMSTRONG, C.L. et al. "Establishment and Maintenance of Friable, Embryogenic Maize Callus and the Involvement of L-proline", Planta, 1985, pp. 207-214, Vol. 184.	
	R5	BAE, J.M. et al. "Cloning and Characterization of the Brittle-2 Gene of Maize", Maydica, 1990, pp. 317-322, Vol. 35.	П
	R6	BALLICORA, M. A. et al. "Adenosine 5'-Diphosphate-Glucose Pyrophosphorylase from Potato Tuber", <i>Plant Physiol.</i> , 1995, pp. 245-251, Vol. 109.	Т
	R7	BHAVE, M.R. et al. "Identification and Molecular Characterization of Shrunken-2 cDNA Clones of Maize", Plant Cell, June 1990, pp. 581-588, Vol. 2.	
	R8	DICKINSON, D.B. et al. "Presence of ADP-Glucose Pyrophosphorylase in Shrunken-2 and Brittle-2 Mutants of Maize Endosperm", <i>Plant Physiol.</i> , 1969, pp. 1058-1062, Vol. 44.	П
	R9	FRAME, B.R. et al. "Production of Transgenic Maize from Bombarded Type II Callus: Effect of Gold Particle Size and Callus Morphology on Transformation Efficiency", In Vitro Cell. Dev. Biol-Plant, 2000, pp. 21-29, Vol. 36.	П
	R10	COPELAND, L. et al. "Purification of Spinach Leaf ADPglucose.Pyrophosphorylase", Plant Physiol., 1981, pp. 996-1001, Vol. 68.	П
	_R11	GIROUX, M.J. et al. "ADP-glucose Pyrophosphorylase in Shrunken2 and Brittle2 Mutants of Maize", Molecular and General Genetics, 1994, pp. 400-408, Vol. 243.	П
	R12	GREENE, TW. et al. "Mutagenesis of the Potate ADPglucose Pyrophosphorylase and Characterization of an Allosteric Mutant Detective in 3-phosphoglycerate Activation", Proc. Natl. Acad. Sci., USA, February 1996, pp. 1509-1513, Vol 9.	П

	1505, Pp. 1505-1515, Vol. 95.
Examiner	Date
Signature	Date

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Considered Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

and not considered. Include copy of this form with next communication to applicant.

Applicants unique clation designation number (optional).

Applicants unique clation designation number (optional).

Applicants unique clation designation number (optional).

Applicants unique clatic necessaries are considered to the public which is to file (and by the USPTO
This codection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO
Time with vary depending upon the individual case. Any comments on the
amount of time you require to complete this form and/or uniquesticned for volcation this product is to Chief Information Officer, U.S. Patent and generally, response, and automating the Competence application in the time of the time and upplications upon the competence and another of the property of the competence and the compet Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

PTO/SB/08B (08-03)

Approved for use through 07/31/2006. OMB 0651-0031 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB

CONTROL HUMBER.					The second of the contract of	
Substitu	ute for form 1449B/PTO			Complete if Known		
	DRMATION D		OSLIRE	Application Number	10/577,611	
	TEMENT BY			Filing Date	April 28, 2006	
317	I CINICIAL DI	AF	LICANI	First Named Inventor	L. Curtis Hannah	
(4	use as many sheets	as nec	essarv)	Group Art Unit	Not yet assigned	
				Examiner Name	Not yet assigned	
Sheet	3	of	4	Attorney Docket Number	UF-382XC1	

	NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No. 1	Include name of the author (in CAPITAL LETTERS), tille of the article, (when appropriate), tille of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, orly and/or country where published.	T ²				
	R13	GREENE, T.W. et al. "Aspartic Acid 413 is Important for the Normal Allosteric Functioning of ADP- Glucose Pyrophosphorylase", Plant Physiol., 1996, pp. 1315-1320, Vol. 112.					
	R14	HANNAH, L.C. et al. "Characterization of Adenosine Diphosphate Glucose Pyrophosphorylases from Developing Maize Seeds", <i>Plant Physiol.</i> , 1975, pp. 297-302, Vol. 55.	Г				
	R15	HANNAH, L.C. et al. "Characterization of ADP-Glucose Pyrophosphorylase from Shrunker-2 and Brittle-2 Mutants of Maize", Biochem. Genet., 1976, pp. 547-560, Vol. 14, No. 7/8.	T				
	R16	HANNAH, L.C. 'Starch Synthesis in the Maize Endosperm', In: <u>Advances in Cellular and Molecular Biology of Plants</u> , 1997, pp. 375-405, Vol. 4., Larkins, B. A. <i>et al.</i> (eds.), Cellular and Molecular Biology of Plant Seed Development. Kluwer Academic Publishers, Doordrecht, The Netherlands.					
	R17	IGLESIAS, A. et al. "Expression of the Potato Tuber ADP-Glucose Pyrophosphorylase in Escherichia Coll", J. Biol. Chem., 1993, pp. 1081-1086, Vol. 268, No. 2.	Γ				
	R18	LAL, J. et al. "The AG Dinucleotide Terminating Introns is Important but not Always Required for Pre- mRNA Splicing in the Maize Endosperm", <i>Plant Physiology</i> , May 1999, pp. 65-72, Vol. 120.					
	R19	LIN, T-P. et al. "A Starch Deficient Mutant of Arabidops's thaliana with Low ADPglucose Pyrophosphorylase Activity Lacks One of the Two Subunits of the Enzyme", Plant Physiol., 1988, pp. 1175-1181, Vol. 88.					
_	R20	MORELL, M. et al. "Affinity Labeling of the Allosteric Activator Site(s) of Spinach Leaf ADP-glucose Pyrophosphorylase", J. Biol. Chem., January 1988, pp. 633-637, Vol. 263,No. 2.					
	R21	MULLER-ROBER, B.T. et al. "One of Two Different ADP-glucose Pyrophosphorylase Genes from Potato Responds Strongly to Elevated Levels of Sucrose", Mol. Gen. Genet., 1990, pp. 136-146, Vol. 224.					
	R22	NAKATA, P.A. et al. "Comparison of the Primary Sequences of Two Potato Tuber ADP-glucose Pyrophosphorylase Subunits", <i>Plant Molecular Biology</i> , 1991, pp. 1089-1093, Vol. 17.					
	R23	OKITA, T.W. et al. "The Subunit Structure of Potato Tuber ADPglucose Pyrophosphorylase", Plant Physiol., 1990, pp. 785-790, Vol. 93.					
	R24	OKITA, T.W. et al. "Engineering Plant Starches by the Generation of Modified Plant Biosynthetic Enzymes", In: <u>Engineering Crops for Industrial End Uses</u> , 1996, Shewry, P. R., et al. (eds.). Portland Press LTD., London.					

Europhysia	
Examiner	Date
Signature	
	Considered
*EXAMINER: Initial if	reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance
and not considered. Inc.	dude copy of this form with next communication to conformance with MPEP 609. Draw line through citation if not in conformance

E-DOMINICH: Intelligence of the control of the cont O process an apprecion. Commensating is governed by 30 U.S.C. 122 and 37 CPR 1.14. Ins collection is estimated to charge 2 Points to complete, preparation from the full year of permitted process. A point is completed application from the full year of permitted process. The process of the permitted process of the permitt Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

PTO/SB/08B (08-03)

Approved for use through 07/31/2006, OMB 0851-0031 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB

control number. Complete if Known Substitute for form 1449B/PTO Application Number 10/577.611 INFORMATION DISCLOSURE Filing Date April 28, 2006 STATEMENT BY APPLICANT First Named Inventor L. Curtis Hannah **Group Art Unit** Not yet assigned (use as many sheets as necessary) **Examiner Name** Not yet assigned Sheet 4 of Attorney Docket Number UF-382XC1 4

	NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²			
	R25	OLIVE, M.R. et al. "Isolation and Nucleotide Sequences of cDNA Clones Encoding ADP-glucose Pyrophosphorylase Polypeptides from Wheat Leaf and Endosperm", <i>Plant Physiol. Mol. Biol.</i> , 1989, pp. 525-538, Vol. 12.				
	R26	PREISS, J. "Bacterial Glycogen Synthesis and its Regulation", <i>Ann. Rev. Microbial.</i> , 1984, pp. 419-458, Vol. 38.				
	R27	PREISS, J. et al. "Molecular Biology and Regulatory Aspects of Glycogen Biosynthesis in Bacteria", Progress in Nuc. Acid Res. And Mol. Biol., 1994, pp. 299-329, Vol. 47.	T			
	R28	PREISS, J. et al. "Starch Synthesis in Sinks and Sources", In: Photassimilate Distribution in Plants and Crops: Source-Sink Relationships, 1996, Zamski, E. (ed.). pp. 139-168, Marcil Dekker Inc.	T			
	R29	SHAW, J.R. et al. "Genomic Nucleotide Sequence of a Wild-Type Shrunken-2 Allele of Zea mays", Plant Physiology, 1992, pp. 1214-1216, Vol. 98.	T			
	R30	SOMOGYI, M. "Notes on Sugar Determination", <i>Journal of Biological Chemistry</i> , 1952, pp. 19-23, Vol. 195.				
	R31	SPENCER, T.M. et al. "Bialaphos Selection of Stable Transformants from Maize Cell Culture", <i>Theor. Appl. Genet.</i> , 1990, pp. 625-631, Vol. 79.	T			
	R32	STARK, D.M. et al. "Regulation of the Amount of Starch in Plant Tissues by ADP Glucose Pyrophosphorylase", Science, 1992, pp. 287-292, Vol. 258.				
	R33	TSAI, C. Y. et al. "Starch-Deficient Maize Mutant Lacking Adenosine Diphosphate Glucose Pyrophosphorylase Activity", <i>Science</i> , 1966, pp. 341-343, Vol. 151.				
	R34	VAIN, P. et al. "Osmotic Treatment enhances Particle Bombardment-Mediated Transient and Stable Transformation of Maize", Plant Cell Reports, 1993, pp. 84-88, Vol. 12.				
	R35		\vdash			
	R36		П			
	R37		\vdash			

Examiner	/David T. Fox/	Date	
Signature	/Bavia 1.1 0x/		10/27/2008
*EXAMINER: Initial i	reference considered whether are at a facility	Considered	

ered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered, include copy of this form with next communication to applicant.

'Applicant's unique clation designation number (optional).

Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including to processy an appearation. Commontatility is governed by 30 U.S.C. 1/22 and 37 C.H.R. 1.14. Into contection is estimated to lake 2 hours to complete, including againsting, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case, you comments on the against the complete application form to the USPTO. Time will vary depending upon the individual case. A growth process that the complete is the complete and the comple Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.